1. This invention deals with a phytograph in which the comptographic principle is basically this; power is delivered to the keyboard at a specific instant in a period of 26 instants, the cipher resultant of depressing a given key depending their upon the specific instant the beglovard is made "alive," since for each of the 26 different instant the beglovard is made "alive," since for each of the 26 different instants a different mixed alphabet is presented. The presentation of alphabets is regular but the exact instant of selection is very irregular, consequently the encipherment is very irregular as to period and can be made quite aparticle.

Attacking, 36-pegment, 16-character commentator wheel of the Hobern type, controlled by a control peptem meluding a set of notatable, differential cam whoels. This control system consists of five or a multiple of five Cam wheels which operate make or break contact leavers and their action (by causing suitable interaction between sets of five cam wheels in case 10,15,... cam wheels are used in pets of fives) results in setting up five, Bondot resultants. The camerhoods are of different dismeters, indevidually softatable in properties warmer, the number of positions on the various came whoels being professible for Release by NSA on 09-30-2013 pursuant to 0.0.

permutations, there being a total of 32 such permutations 3. The 32 resultant Gandot permutations are carried, by means of a Boudot translator, or by means of a set of selays, into a translation stage where a specific permutation will just up a specific effect. hormally there would be 32 such specific effects, but for purposes of this unenton six of the 32 effects must be consolidated into the other 26, 100 isat there will be only its different resultant effects for cryptographic purposes. In this the six extra functions (-t ---, --t ---, "---t")
"t++++", "++-++", and "----") and throwing justussender - rettel de resto est le xis. Abre in mast Boundot permutations. Which vix will be belocked to be "double representations can se determined and varied at will by a soutable plug and saile arrangement.

is. In this envention the ab specific effects

thus rendered possible by cam action merely

determine which of 26 sagments will be made alue

(that is, becan connected to a power source)

Set of 26 Alegments in a circle over which a brush sweeps in

Agrichmonion with the

Commitator wheel. The commutator maybe provided with a brush arm, fixed on to persphery, the brush sweeping over the 26 sagments of the sweeting element once per parolution of the gomentator, or any other suitable and aquiralent arrangement may be used? If that is synchronized in its sotation with the commutator (the distributor)) by being connected to a element is made alive" power source, and when the brush reaches this " Rive segment, the keyboard of the cryptograph is made alive at that instant. If a key is depressed during that instant, the letter corresponding to that key wel be emphered in the sperific muxed alphabet determined by the specific position of the replan commutator at that ustant. Hus, in other words, the keyboard is made alive at any one of no different instants in the cycle passed through by the Commutator, early of these instants coversponds to a different mixed alphabet, Since the can wheel action, and the latter is very inequalen, energherment will be by a very long, unmtelligible random - miral key. It is to be understood that the cam wheel asom advances one step per deplassions of a key of the keyboard, and no more.

b. The commutator wheel can be made a recipiocal emploring commutator, or by suitable surfleing arrangements, a noursesprocal, surpleing-desplaining relationship can be provided for, of dentité.

To prevent the cryptograph from southandights recording or inducting a resultant more than once for the same set up of key, so that there would be one and only one equivalent per keying operation.

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